

Title (en)
DISTRIBUTED NETWORK WITH CONSENSUS MECHANISM

Title (de)
VERTEILTES NETZWERK MIT KONSENSUS-MECHANISMUS

Title (fr)
RÉSEAU DISTRIBUÉ AVEC MÉCANISME DE CONSENSUS

Publication
EP 4042359 A1 20220817 (EN)

Application
EP 20792462 A 20201022

Priority
• EP 2019078767 W 20191022
• EP 2020079824 W 20201022

Abstract (en)
[origin: WO2021078369A1] An aspect of the invention relates to a distributed network comprising a plurality of network nodes. The distributed network is be configured to perform a method for reaching a consensus on a sequence of values in an advantageous manner. The method performs consecutive notarization rounds. The notarization rounds comprise steps of creating value proposals to be added to the sequence, communicating the value proposals to a notarization subset of the plurality of nodes and performing a validity check of received value proposals. The notarization rounds may comprise further steps of executing individual notarization signatures on a subset of the value proposals that are valid. The notarization rounds may further comprise performing a consistency check of the value proposals and executing consistency signatures on a subset of the value proposals. The method may further comprise a finality procedure to finalize a value proposal once a predefined finality rule set has been fulfilled.

IPC 8 full level
G06Q 20/22 (2012.01)

CPC (source: EP KR US)
G06Q 20/065 (2013.01 - KR); **G06Q 20/223** (2013.01 - EP KR US); **G06Q 20/38215** (2013.01 - US); **G06Q 20/3825** (2013.01 - KR US); **H04L 9/50** (2022.05 - KR); **H04L 67/104** (2013.01 - KR); **H04L 67/1097** (2013.01 - KR)

Citation (search report)
See references of WO 2021078903A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2021078369 A1 20210429; EP 4042359 A1 20220817; JP 2022553701 A 20221226; KR 20220082074 A 20220616; US 2022383304 A1 20221201; WO 2021078903 A1 20210429

DOCDB simple family (application)
EP 2019078767 W 20191022; EP 2020079824 W 20201022; EP 20792462 A 20201022; JP 2022523573 A 20201022; KR 20227017015 A 20201022; US 202017770945 A 20201022